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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,281	07/19/2001	Georg Huthwohl	HUTHWOHL ET AL-1	2200
7590 10/01/2004		EXAMINER		
COLLARD & ROE, P.C.			TRAN, HIEN THI	
1077 Northern Boulevard Roslyn, NY 11576			ART UNIT	PAPER NUMBER
11051/11, 111 1			1764	

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/909,281	HUTHWOHL ET AL.	HUTHWOHL ET AL.	
Office Action Summary	Examiner	Art Unit		
	Hien Tran	1764		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet v	vith the correspondence addre	ss	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	l. 1.136(a). In no event, however, may a eply within the statutory minimum of th d will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commonshabandoned (35 U.S.C. § 133).	unication.	
Status				
1) Responsive to communication(s) filed on	·			
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.			
3) Since this application is in condition for allow closed in accordance with the practice under		· •	∍rits is	
Disposition of Claims				
 4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 		•		
7) Claim(s) 8-10 is/are objected to.				
8) Claim(s) are subject to restriction and/	or election requirement.			
Application Papers				
9)⊠ The specification is objected to by the Examination 10)⊠ The drawing(s) filed on 19 July 2001 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11)□ The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	a) accepted or b) objee or accepted or b) objee or awing (s) be held in abeyant or action is required if the drawing	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1		
Priority under 35 U.S.C. § 119		0.4404.5.45		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea 	nts have been received. Ints have been received in a ority documents have been	Application No	ge	
* See the attached detailed Office action for a lis	st of the certified copies no	t received.		
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 10/19/01. 	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152	2)	

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "stiffening structure" (claim 4), the "supporting means" (claim 5); the "embossed structures" (claim 10) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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3. The drawings have not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the drawings to comply with CFR 1.84(p)(5), e.g. they should include the reference sign(s) mentioned in the specification and vice versa.

Specification

4. The disclosure is objected to because of the following informalities:

On page 10, line 5 --filter-- is misspelled; in line 15 "2" should be changed to --6-- (note line 3).

Appropriate correction is required.

5. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

6. Claim 10 is objected to because of the following informalities:

In claim 10, line 3 "elements" should be changed to --element--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. Claims 4, 5, 10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described

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in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Specifically, applicants fail to disclose what the stiffening structure and embossed structures are.

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 4, 5, 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 4-5, 10 it is unclear as to what the stiffening structure, supporting means and embossed structures are and where they are shown in the drawings.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 12. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kawamura (5,682,740).

Kawamura discloses an apparatus comprising: a plurality of filter plate elements coupled to each other on their outer and inner periphery forming in pairs, a plurality of filter pockets having outer and inner sides and outer and inner apexes; and a plurality of catalytic agents associated with at least one of said filter pockets on said outer and inner sides (Figs. 2-5, 8-10; col. 4, line 53 to col. 5, line 15).

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Instant claim 1 structurally reads on the apparatus of Kawamura.

13. Claims 1-4, 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagai et al (5,863,311).

With respect to claims 1-3, Nagai et al discloses an apparatus comprising: a plurality of filter plate elements coupled to each other on their outer and inner periphery forming in pairs, a plurality of filter pockets having outer and inner sides and outer and inner apexes; and a plurality of catalytic agents associated with at least one of said filter pockets on said outer and inner sides (Figs. 7, 11, 14A-14B; col. 12, lines 25-34; col. 13, lines 25-31).

With respect to claim 4, Nagai et al discloses provision of stiffening structure 2-1, 2-2, 2-3.

With respect to claim 6-7, Nagai et al disclose that the foils are coated with a catalytic material, such as three-way catalyst (col. 12, lines 25-34; col. 13, lines 25-31).

Instant claims 1-4, 6-7 structurally read on the apparatus of Nagai et al.

Claim Rejections - 35 USC § 103

- 14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 15. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

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- Ascertaining the differences between the prior art and the claims at issue. 2.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness 4. or nonobviousness.
- 16. The art area applicable to the instant invention is that of <u>filter</u>.

One of ordinary skill in this art is considered to have at least a B.S. degree, with additional education in the field and at least 5 years practical experience working in the art; is aware of the state of the art as shown by the references of record, to include those cited by applicants and the examiner (ESSO Research & Engineering V Kahn & Co, 183 USPQ 582 1974) and who is presumed to know something about the art apart from what references alone teach (In re Bode, 193 USPQ 12, (16) CCPA 1977); and who is motivated by economics to depart from the prior art to reduce costs consistent with the desired product characteristics. In re Clinton 188 USPQ 365, 367 (CCPA 1976) and In re Thompson 192 USPQ 275, 277 (CCPA 1976).

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nagai et al 17. (5,863,311) in view of Kawamura (5,682,740).

The apparatus of Nagai et al is substantially the same as that of the instant claim, but is silent as to whether the foils are fixed in a radial alignment.

However, the shape of the foils is not considered to confer patentability to the claim. It would have been an obvious matter of design choice to select an appropriate shape for the foils, since such a modification would have involved a mere change in the shape of a component. A change in shape is generally recognized as being within the level of ordinary skill in the art,

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absence showing any unexpected results. *In re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

In any event, Kawamura discloses provision of the filter in a radial alignment.

It would have been obvious to one having ordinary skill in the art to shape the foils in the apparatus of Nagai et al, as taught by Kawamura, on the basis of its suitability for the intended use as a matter of obvious design choice, absence showing any unexpected results thereof and since such is conventional in the art and no cause for patentability here.

Allowable Subject Matter

18. Claims 8-10 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

Conclusion

19. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Schuster et al, Berman et al, Buck are cited for showing state of the art.

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Tran whose telephone number is (571) 272-1454. The examiner can normally be reached on Tuesday-Friday from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

then Tran

HT September 30, 2004 Hien Tran Primary Examiner Art Unit 1764